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ABSTRACT OF THE DISCLOSURE

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An improved method of maintaining data throughput during handoff in a wireless communication link operating with the Mobile IP protocol is described. A first base station initially servicing a mobile subscriber unit is associated with a first Mobile IP foreign agent that is registered with the Mobile IP home agent as a first mobility binding between the subscriber unit and the home agent. When the subscriber unit issues a request to be handed off from the first base station to a second base station, a second foreign agent associated with the second base station is registered with the home agent as a simultaneous binding with the first mobility binding between the subscriber unit and the home agent. This permits both foreign agents to simultaneously receive a sequence of data packets from the home agent. Before handoff is executed, the data packet sequence routed to the second foreign agent is stored at the second base station. After handoff is complete, such stored packets are forwarded to the subscriber unit starting with a predetermined numbered packet in the stored sequence, and the first foreign agent is de-registered with the home agent.